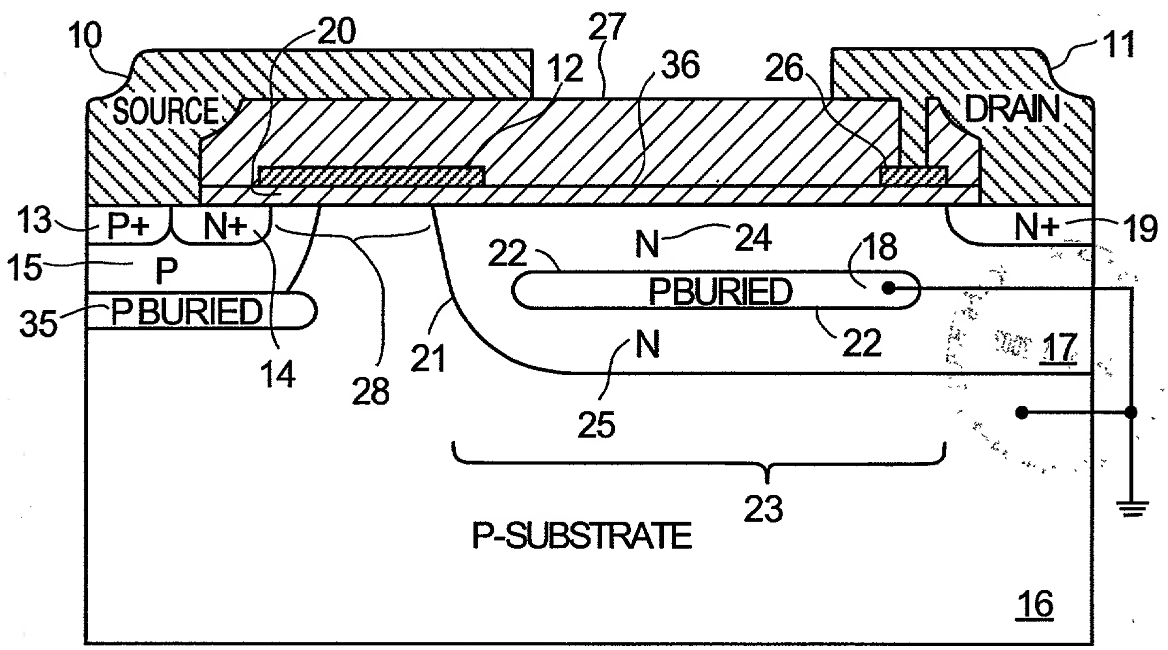
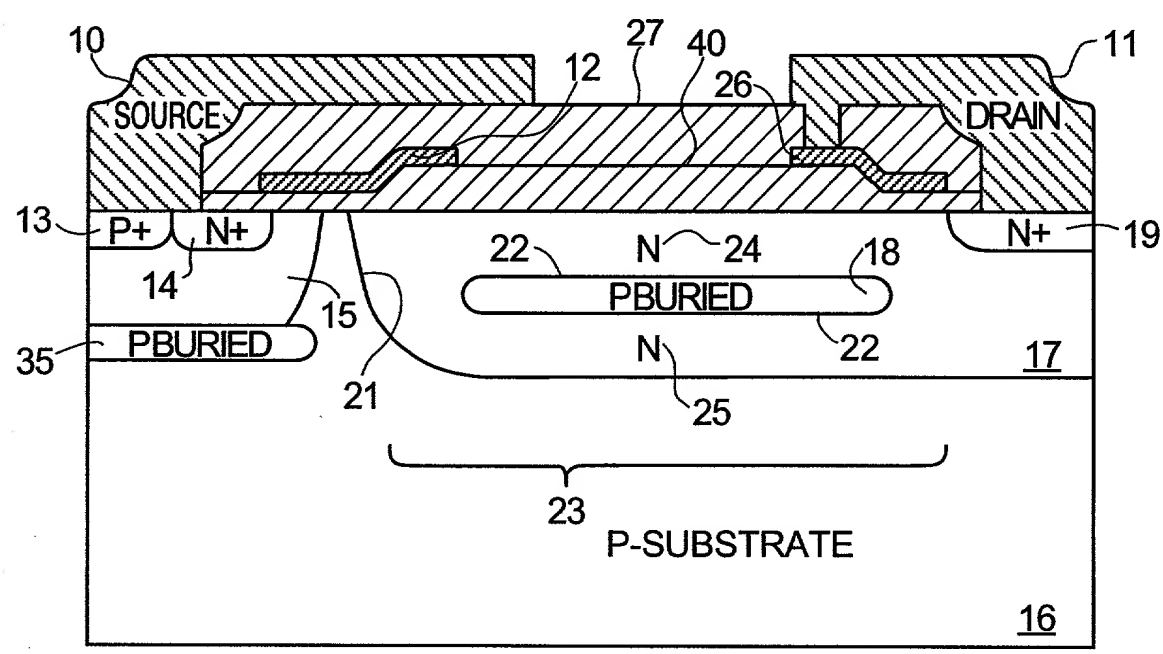
#3



10
20
27
12
36
26
11
SOURCE
DRAIN
13
P+
N+
N+
19
15
P
N
24
22
18
PBURIED
35
P BURIED
22
14
28
21
N
17
25
23
P-SUBSTRATE
16

FIG. 1



10
27
40
12
26
11
SOURCE
DRAIN
13
P+
N+
N+
19
22
N
24
18
14
PBURIED
15
35
PBURIED
N
22
17
21
25
23
P-SUBSTRATE
16

FIG. 2

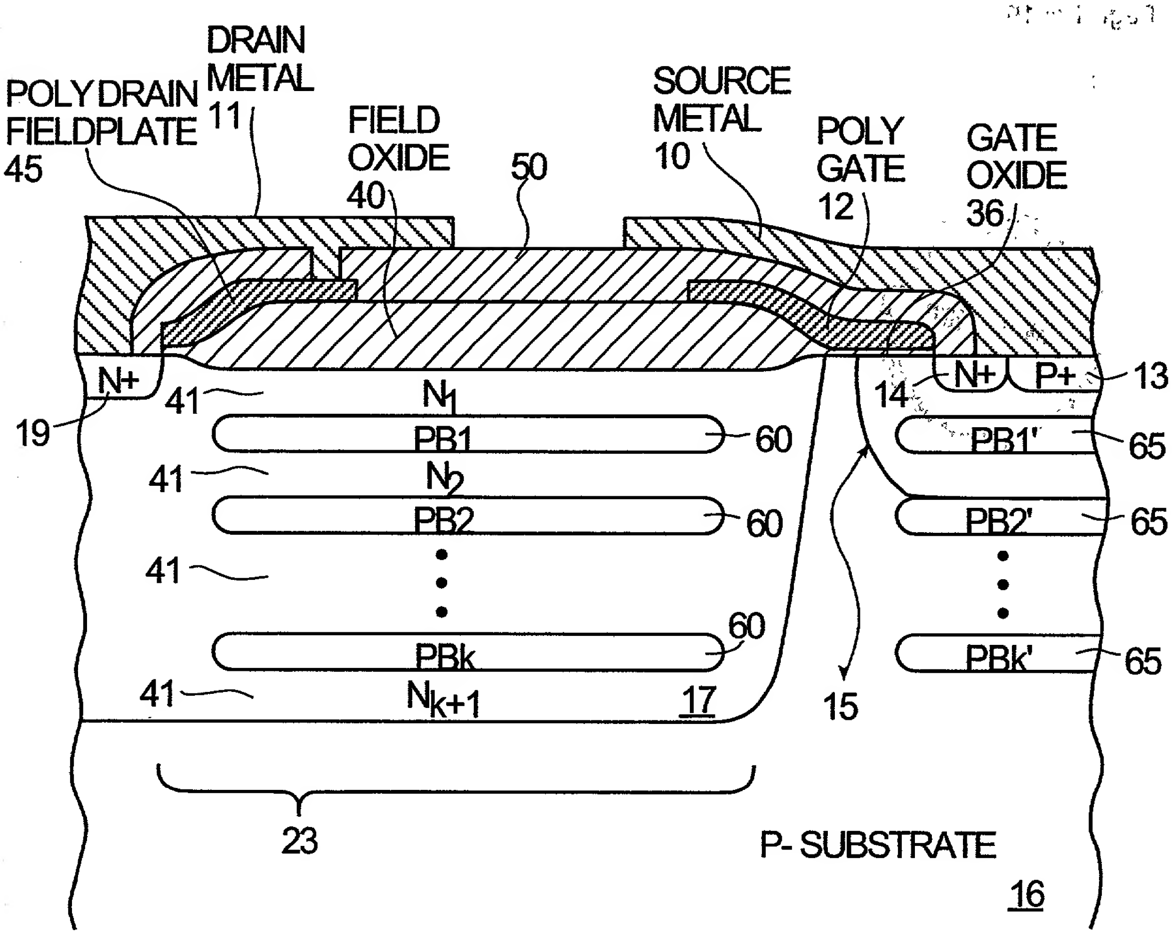
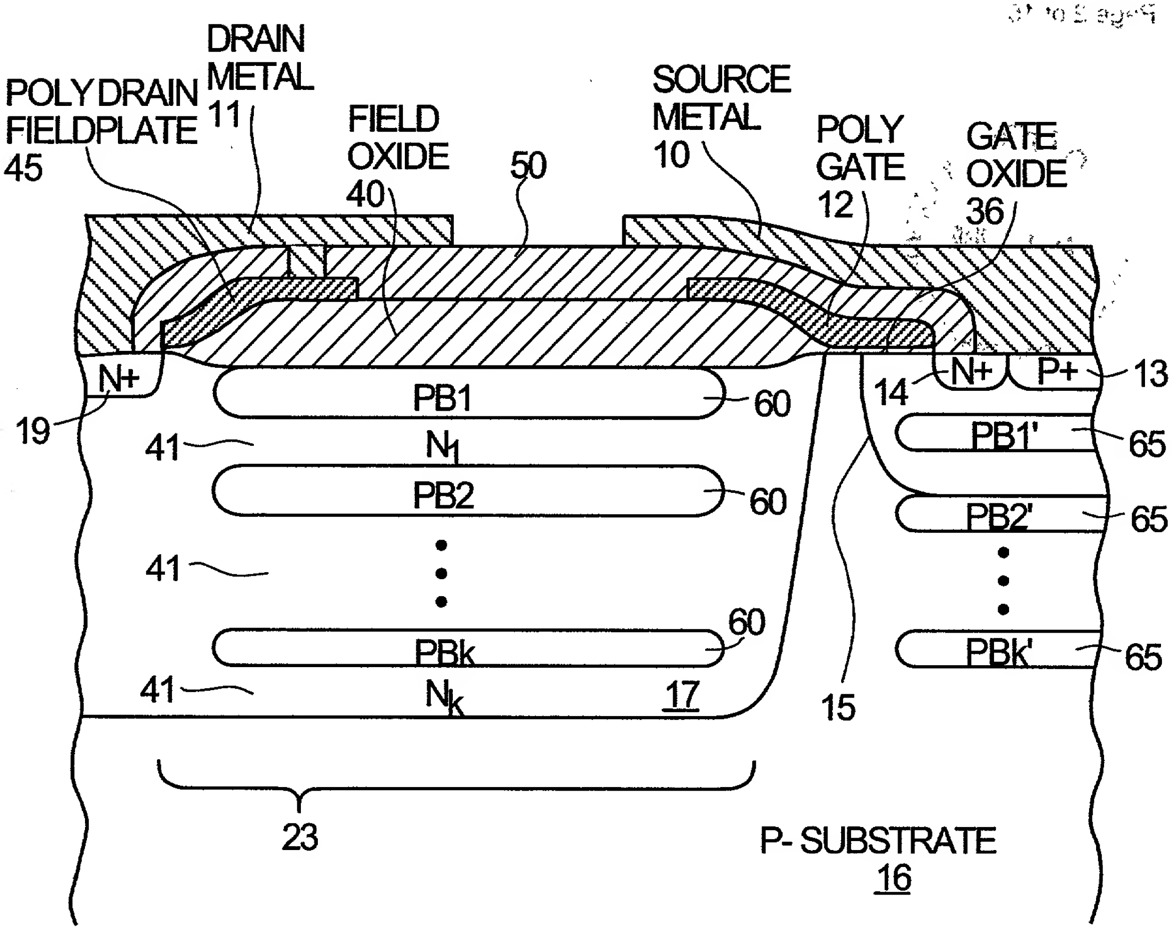

POLY DRAIN FIELDPLATE 45
DRAIN METAL 11
FIELD OXIDE 40
50
SOURCE METAL 10
POLY GATE 12
GATE OXIDE 36
N+
P+
13
14
N+
19
41
N_1
PB1
60
PB1'
65
41
N_2
PB2
60
PB2'
65
41
PBk
60
PBk'
65
41
N_{k+1}
17
15
23
P- SUBSTRATE
16

FIG. 3



DRAIN
METAL
11
POLY DRAIN
FIELDPLATE
45
FIELD
OXIDE
40
50
SOURCE
METAL
10
POLY
GATE
12
GATE
OXIDE
36
N+
19
PB1
60
41
N_1
PB2
60
41
PBk
60
41
N_k
17
14
N+
P+
13
PB1'
65
PB2'
65
PBk'
65
15
23
P- SUBSTRATE
16

FIG. 4

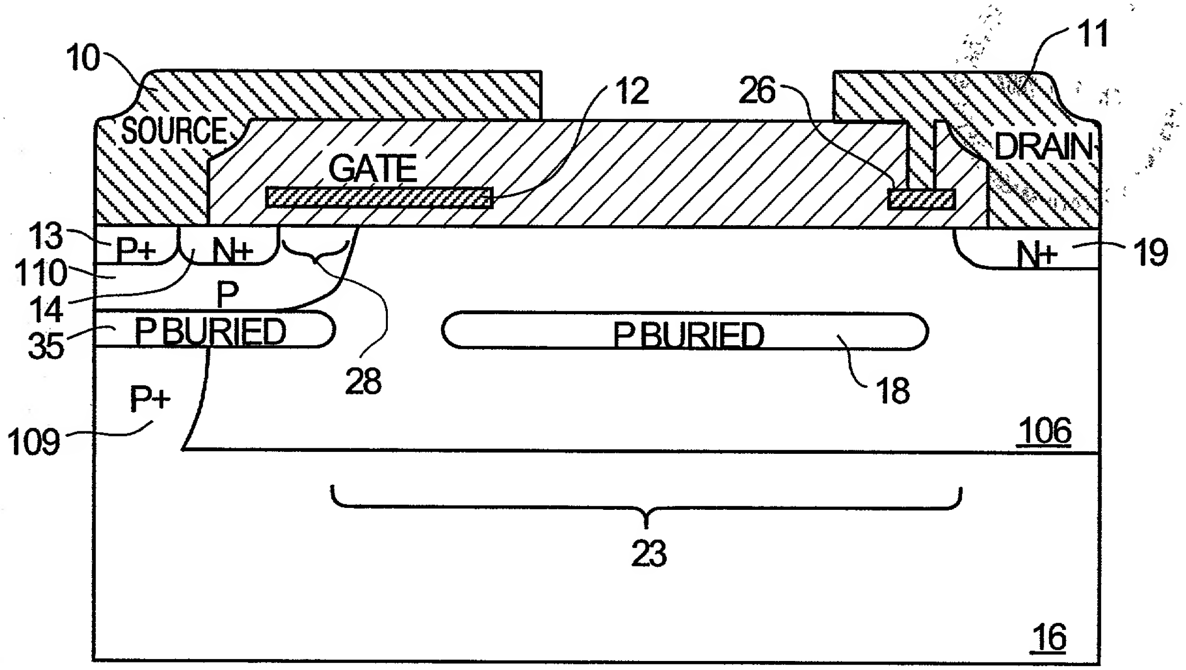
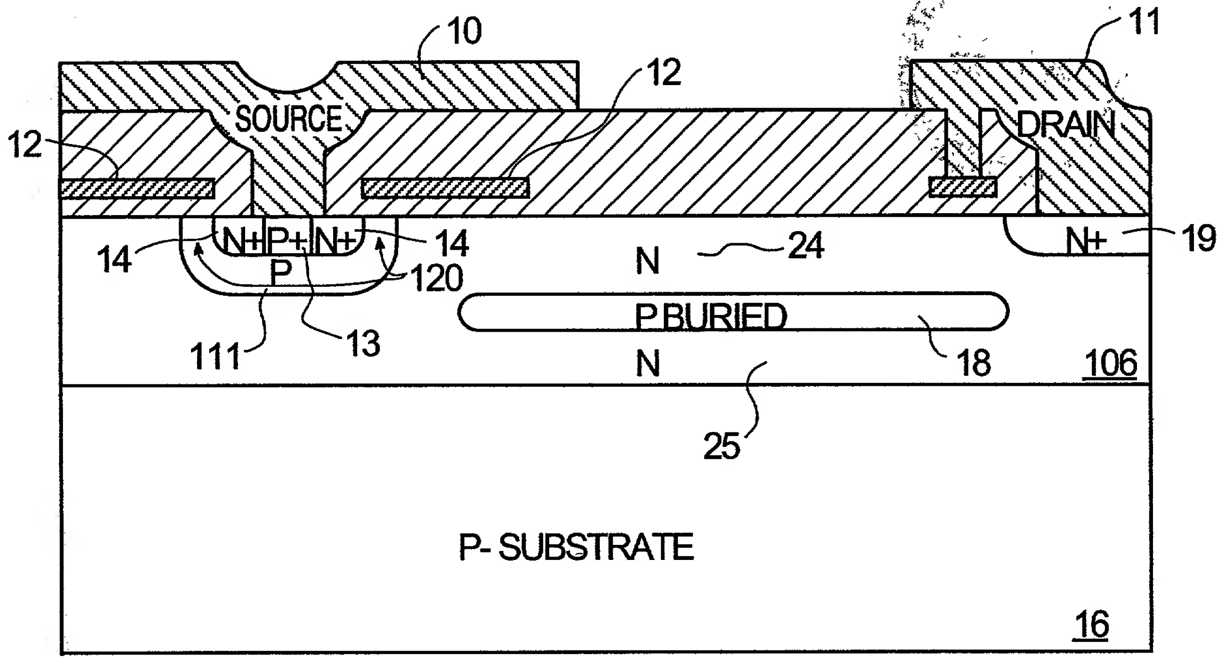

10
SOURCE
GATE
12
26
11
DRAIN
13
P+
N+
110
14
P
35
P BURIED
28
P BURIED
18
N+
19
P+
109
106
23
16

FIG. 5



10
11
12
SOURCE
DRAIN
12
14
N+
P+
N+
14
N
24
N+
19
P
120
111
13
P BURIED
18
N
106
25
P- SUBSTRATE
16

FIG. 6

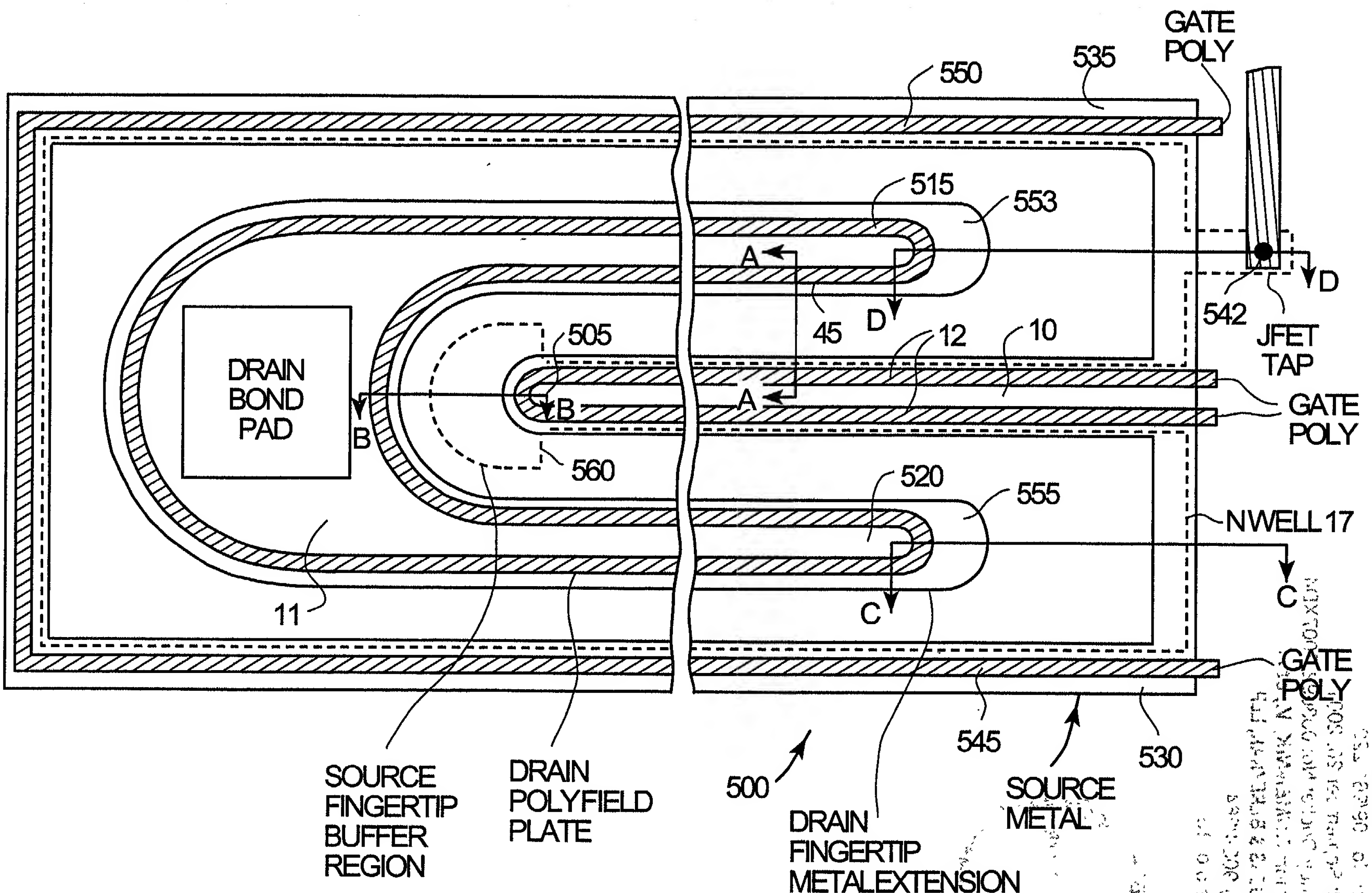

GATE POLY
550
535
515
553
A
D
45
D
12
10
542
JFET TAP
505
DRAIN BOND PAD
B
B
A
GATE POLY
560
520
555
NWELL 17
11
C
C
GATE POLY
545
530
SOURCE FINGERTIP BUFFER REGION
DRAIN POLYFIELD PLATE
500
DRAIN FINGERTIP METALEXTENSION
SOURCE METAL

FIG. 7

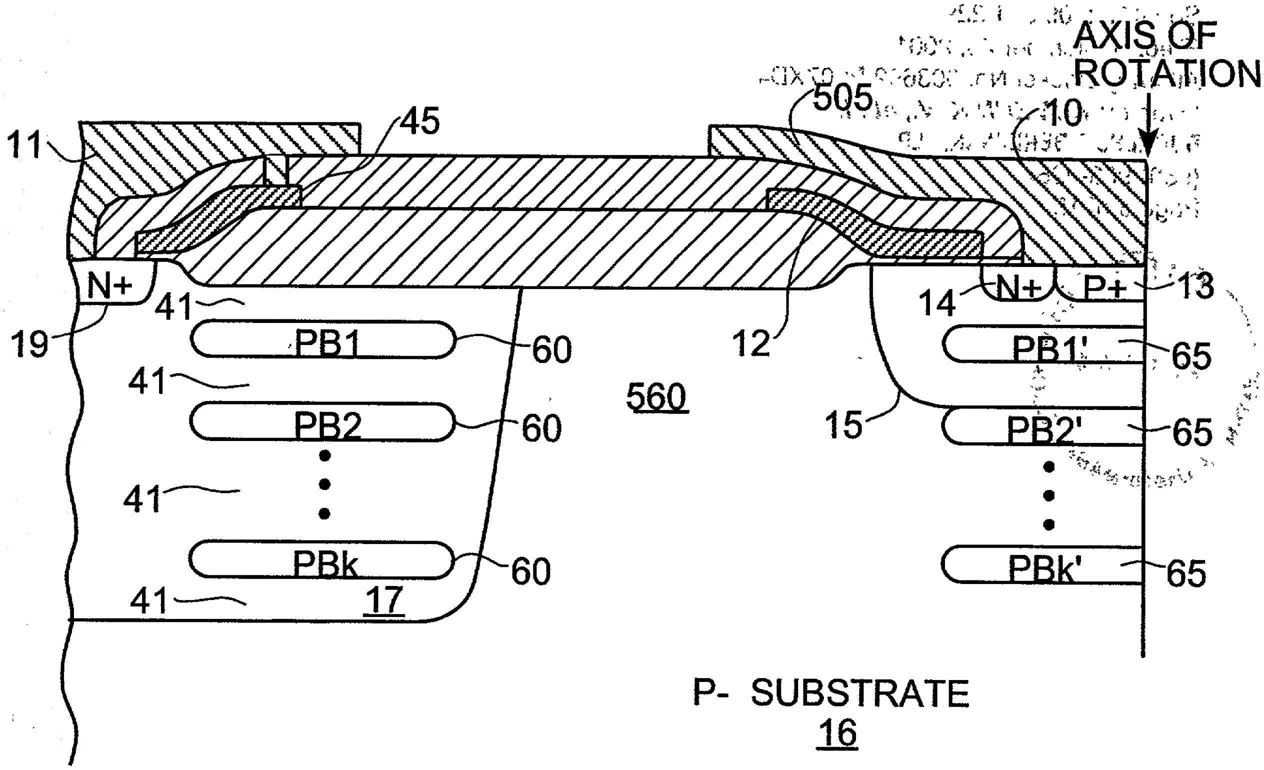

AXIS OF
ROTATION
505
10
11
45
N+
N+
P+
13
14
41
19
PB1
60
PB1'
65
12
41
560
PB2
60
15
PB2'
65
41
PBk
60
PBk'
65
41
17
P- SUBSTRATE
16

FIG. 8

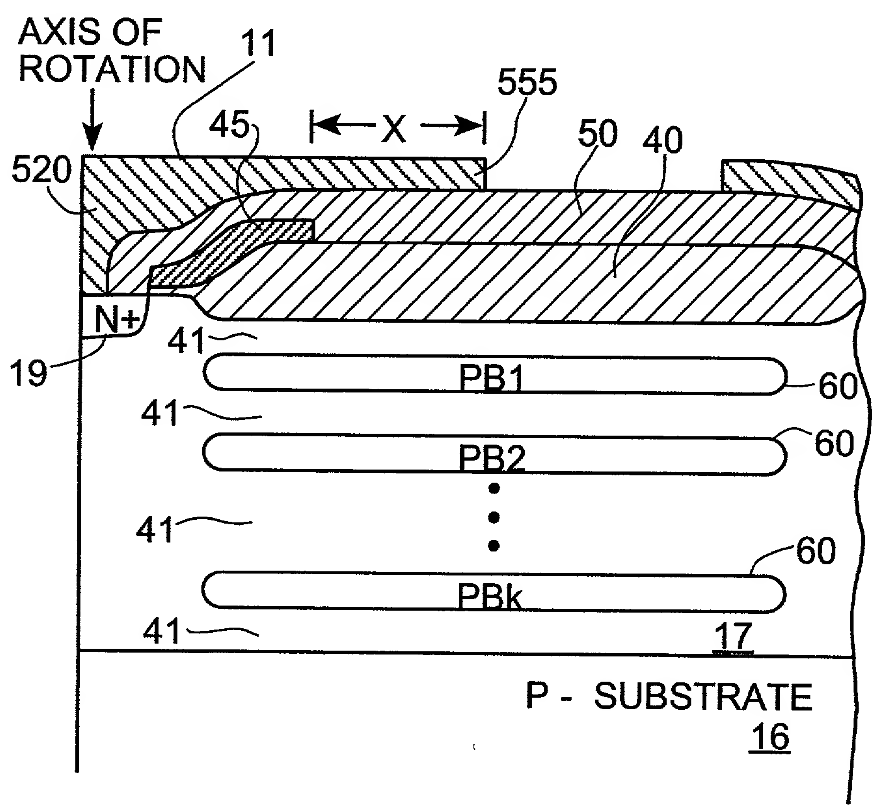
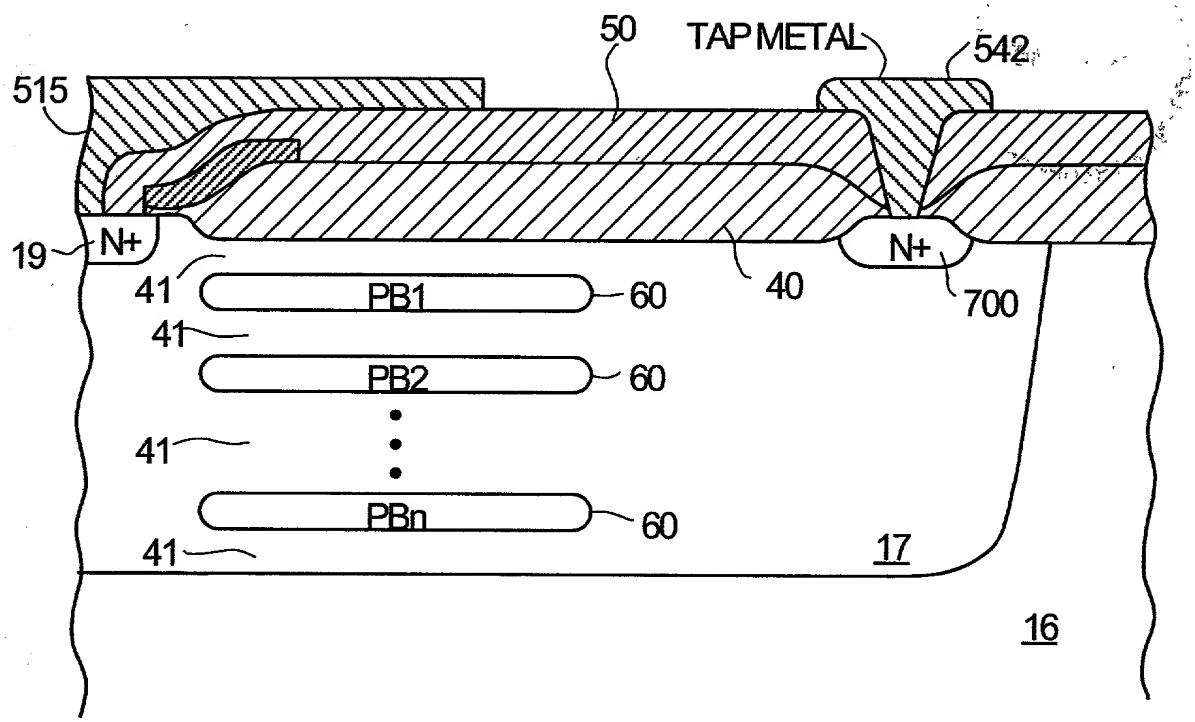

AXIS OF
ROTATION
11
555
45
X
50
40
520
N+
41
19
PB1
60
41
PB2
60
41
60
PBk
41
17
P - SUBSTRATE
16

FIG. 9



50
TAP METAL
542
515
19
N+
N+
700
40
41
PB1
60
41
PB2
60
41
PBn
60
41
17
16

FIG. 10

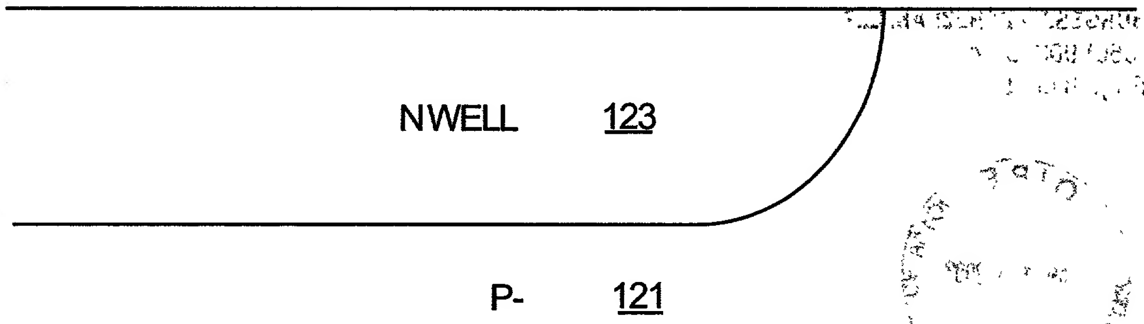


FIG. 11a

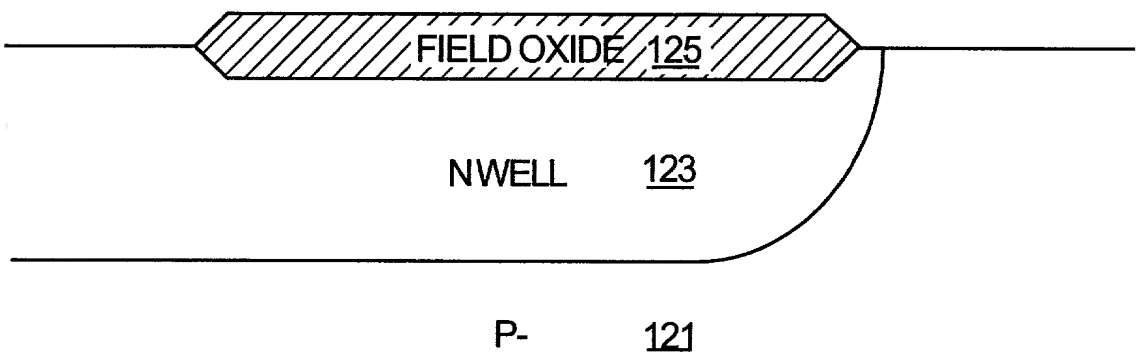


FIG. 11b

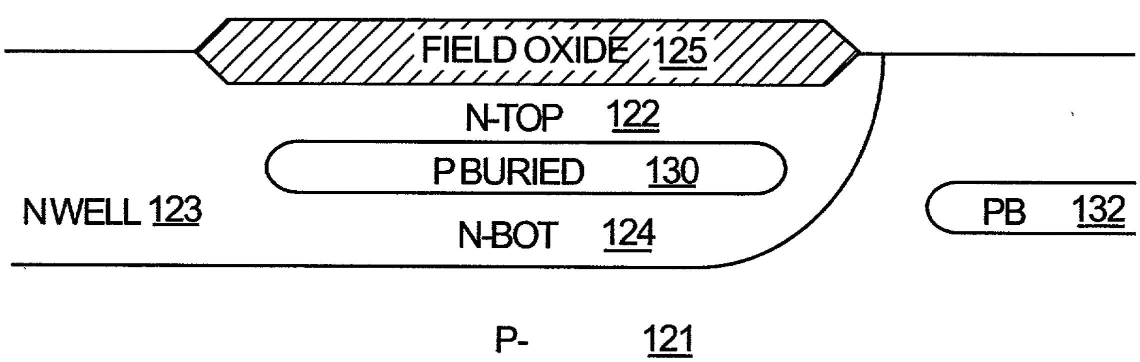


FIG. 11c

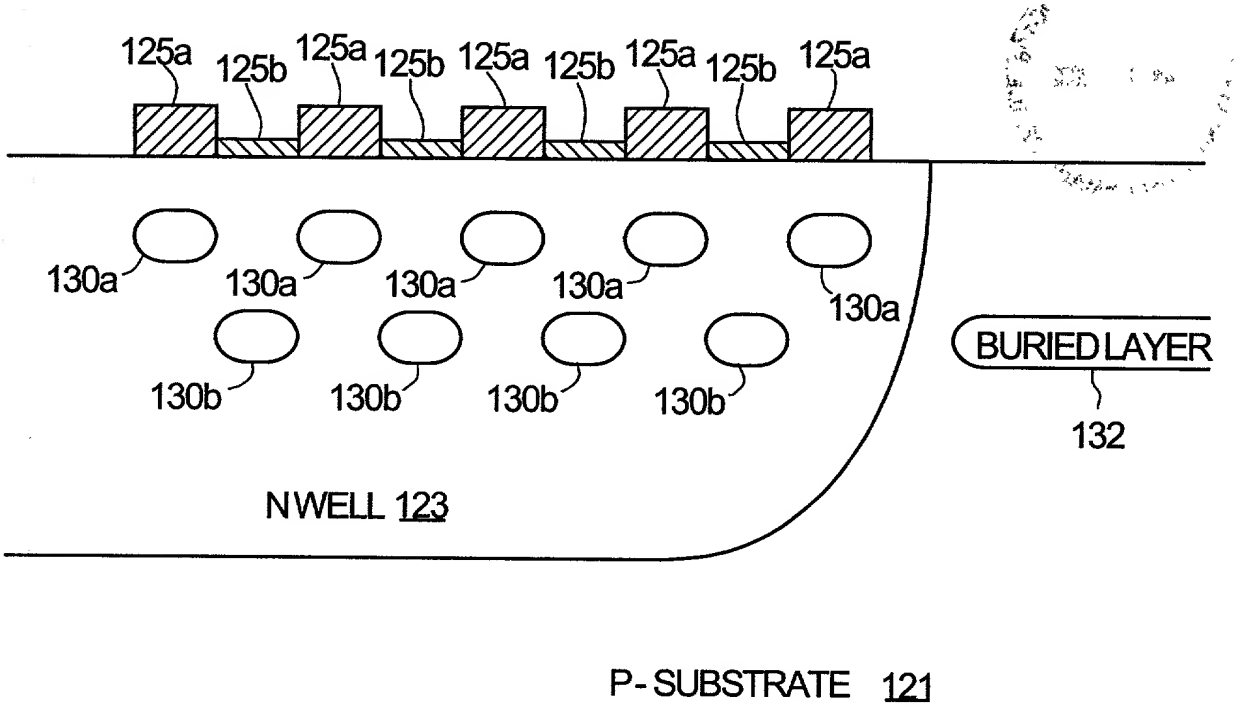

125a
125b
125a
125b
125a
125b
125a
125b
125a
130a
130a
130a
130a
130a
130b
130b
130b
130b
BURIED LAYER
132
N WELL 123
P- SUBSTRATE 121

FIG. 11d

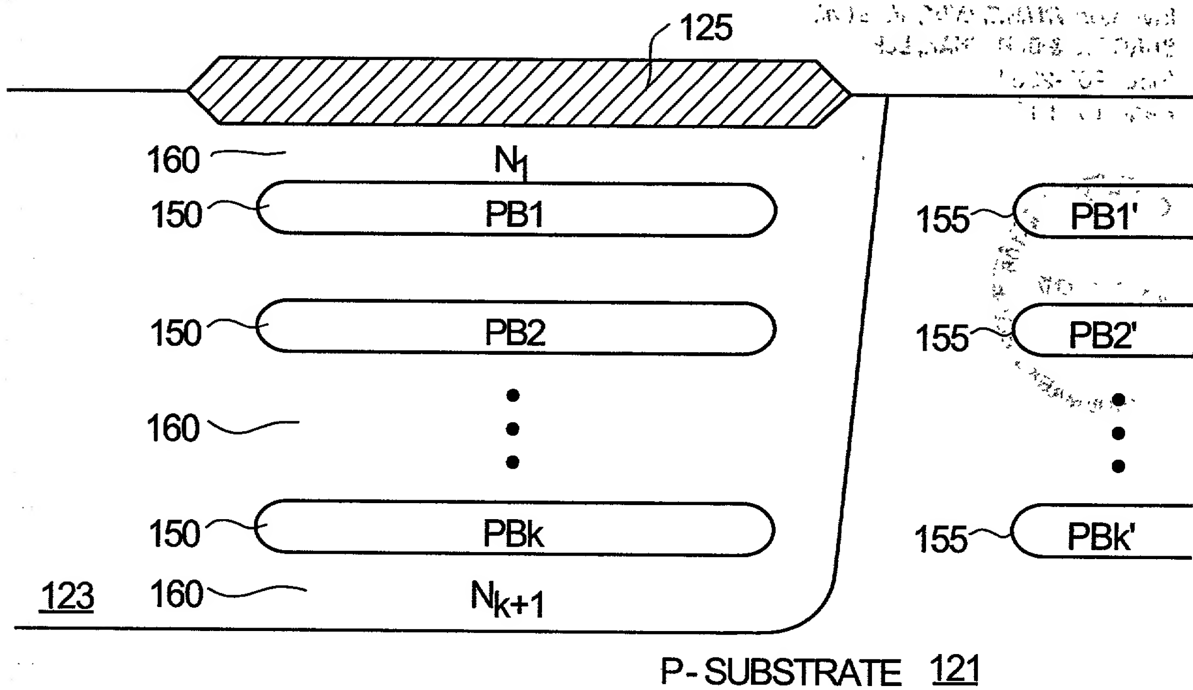


FIG. 11e

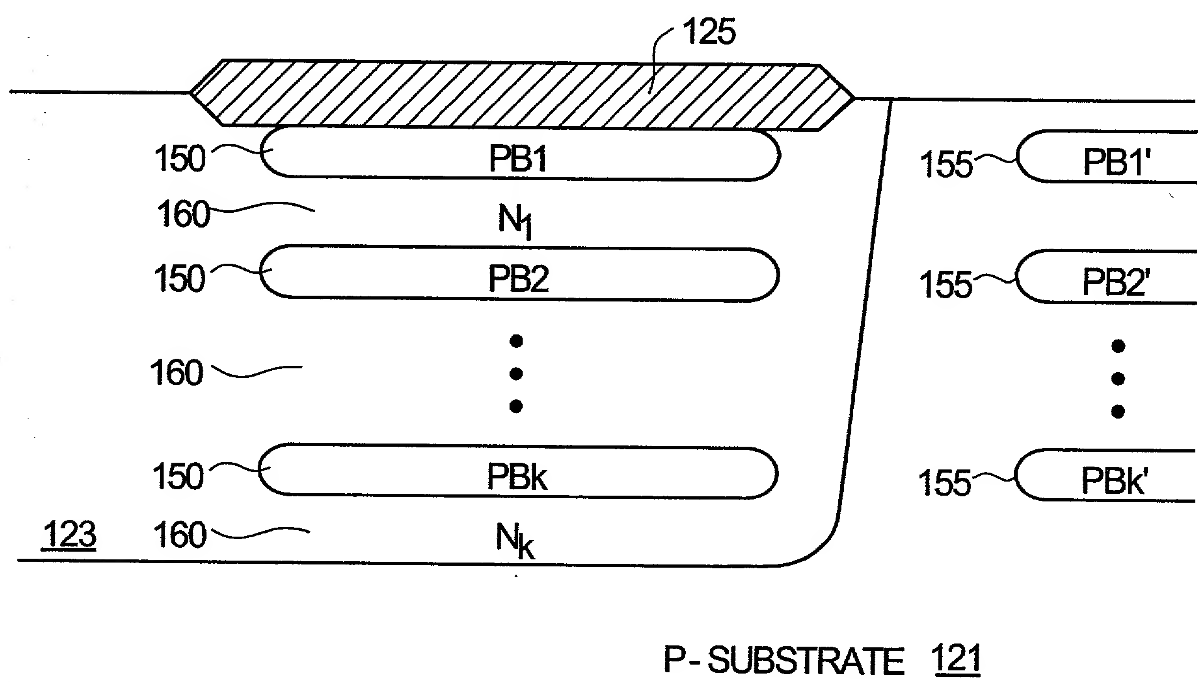


FIG. 11f

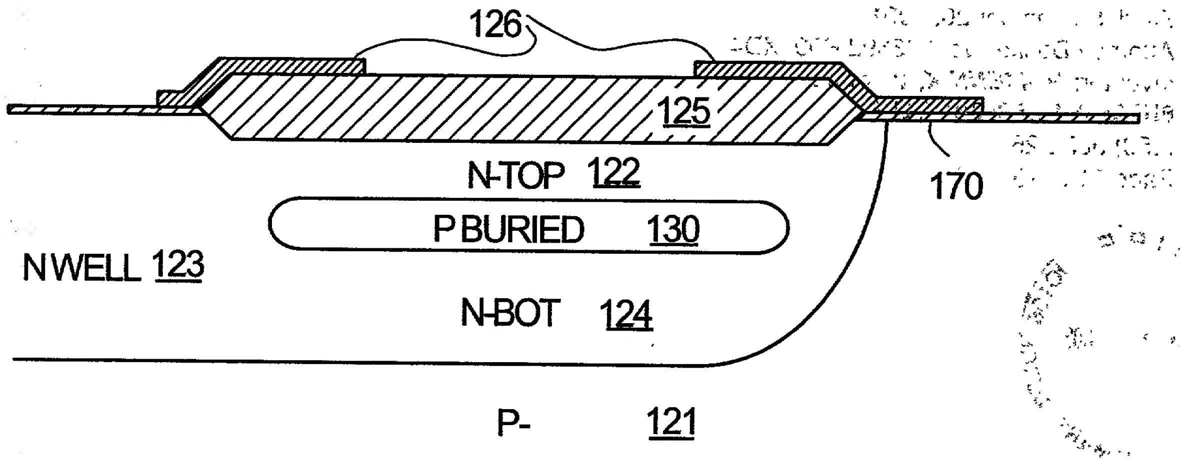


FIG. 11g

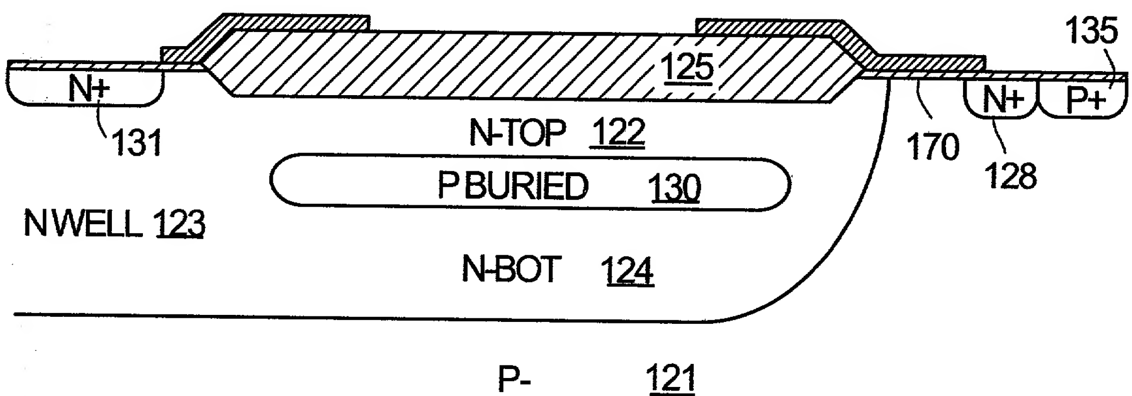


FIG. 11h

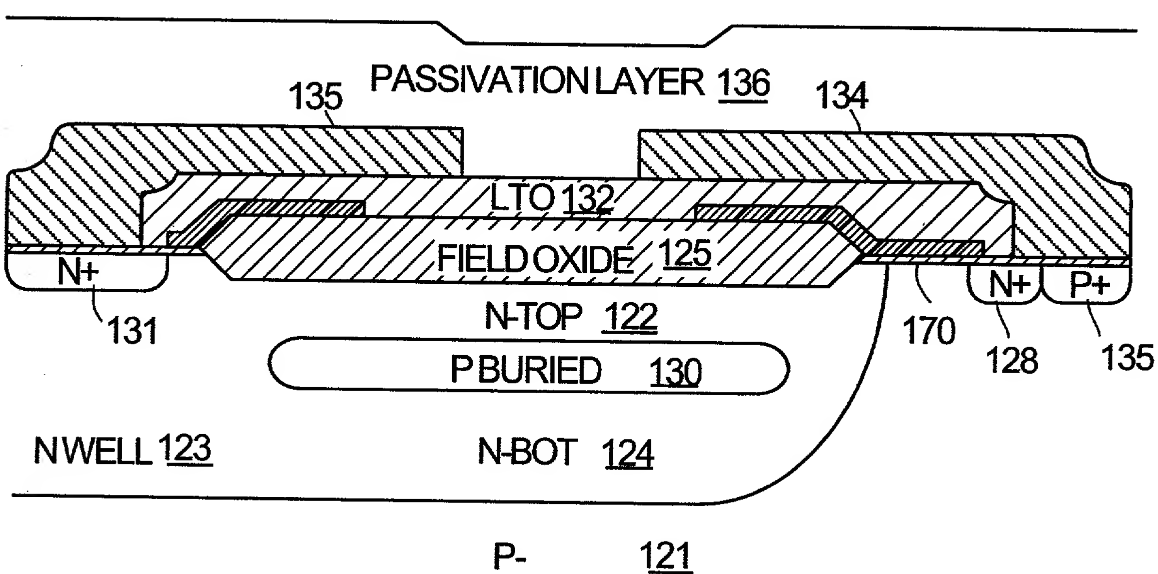


FIG. 11i

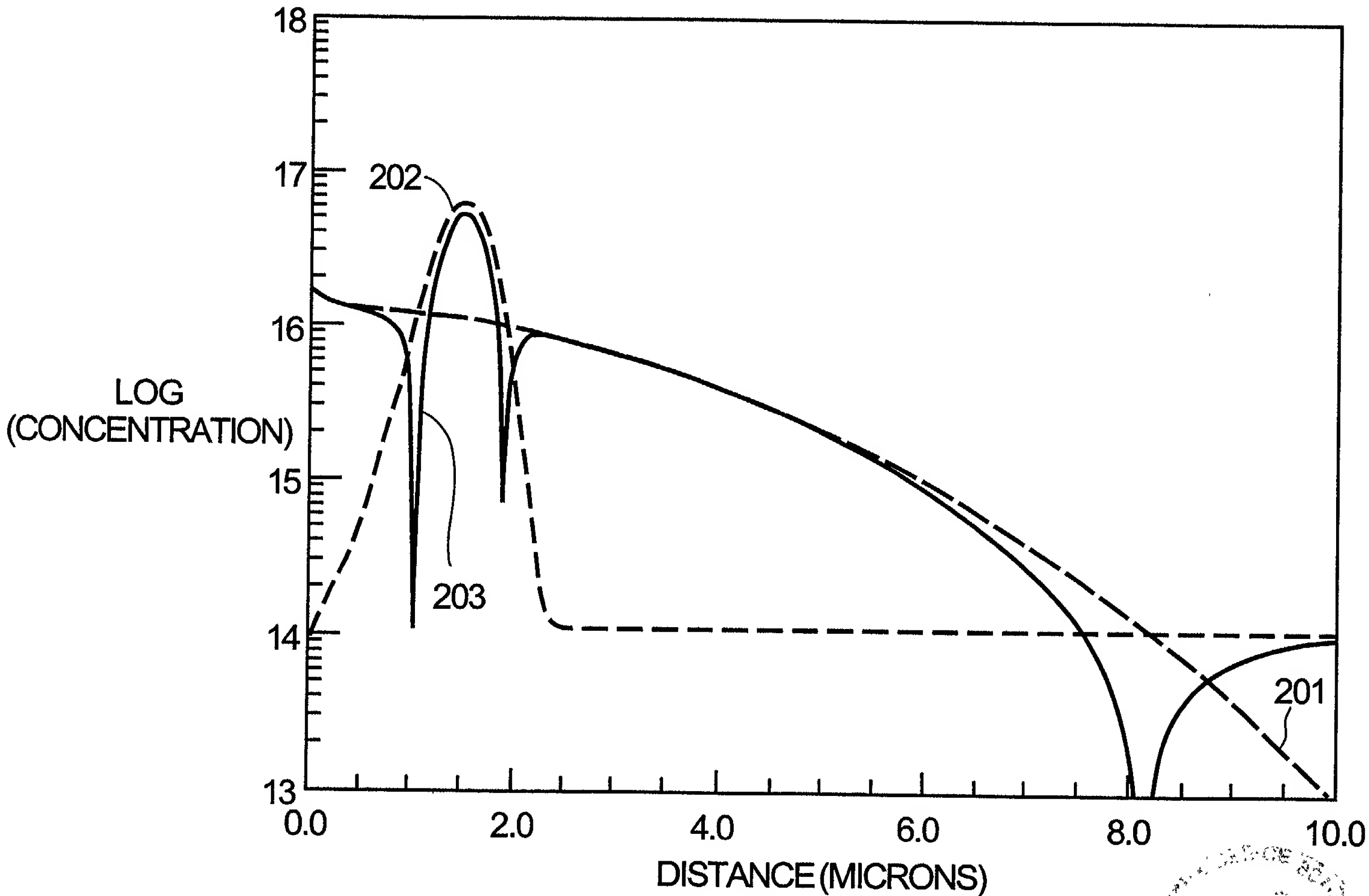

18
17
16
15
14
13
LOG
(CONCENTRATION)
202
203
201
0.0
2.0
4.0
6.0
8.0
10.0
DISTANCE (MICRONS)

FIG. 12

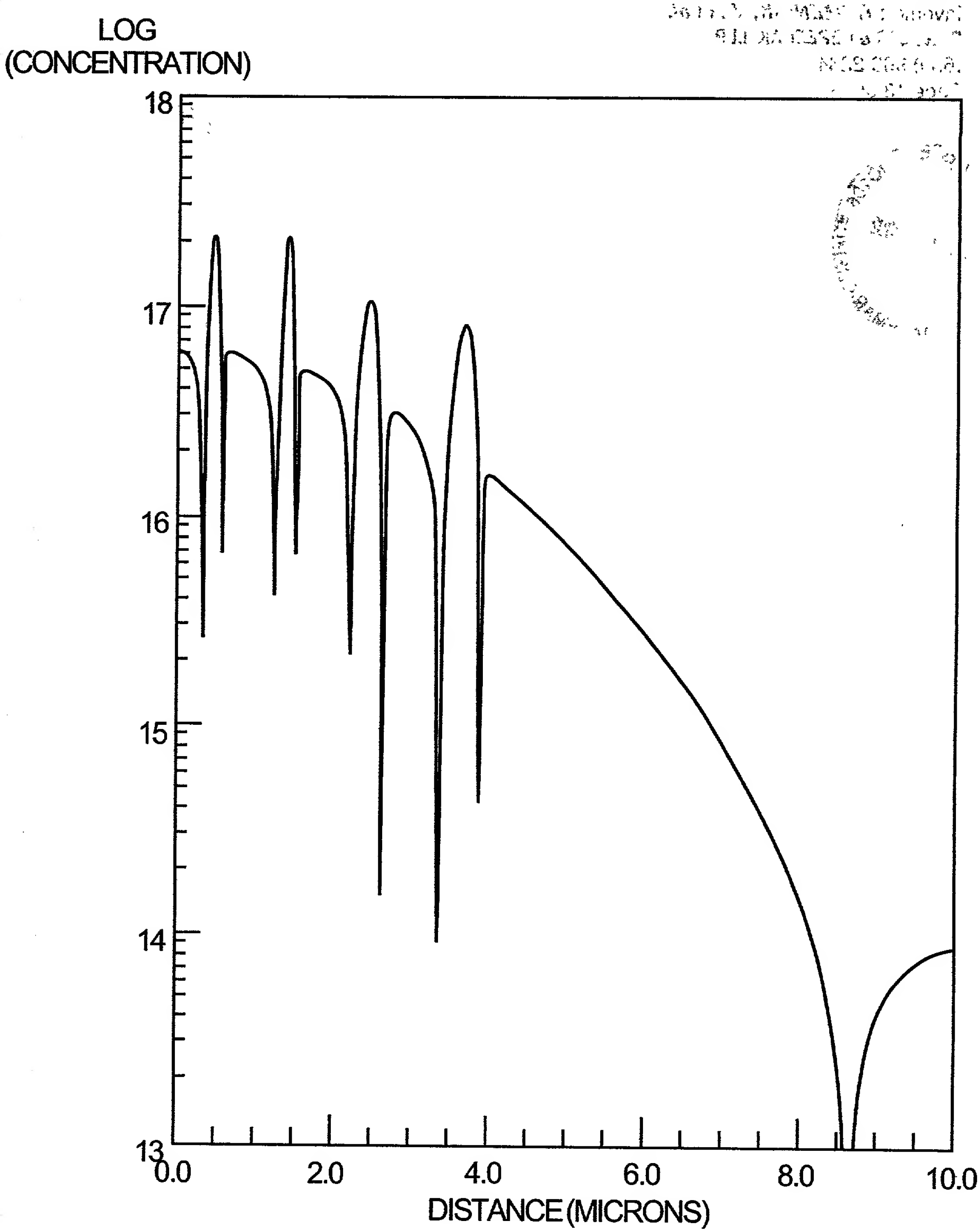

LOG
(CONCENTRATION)
18
17
16
15
14
13
0.0
2.0
4.0
6.0
8.0
10.0
DISTANCE (MICRONS)

FIG. 13

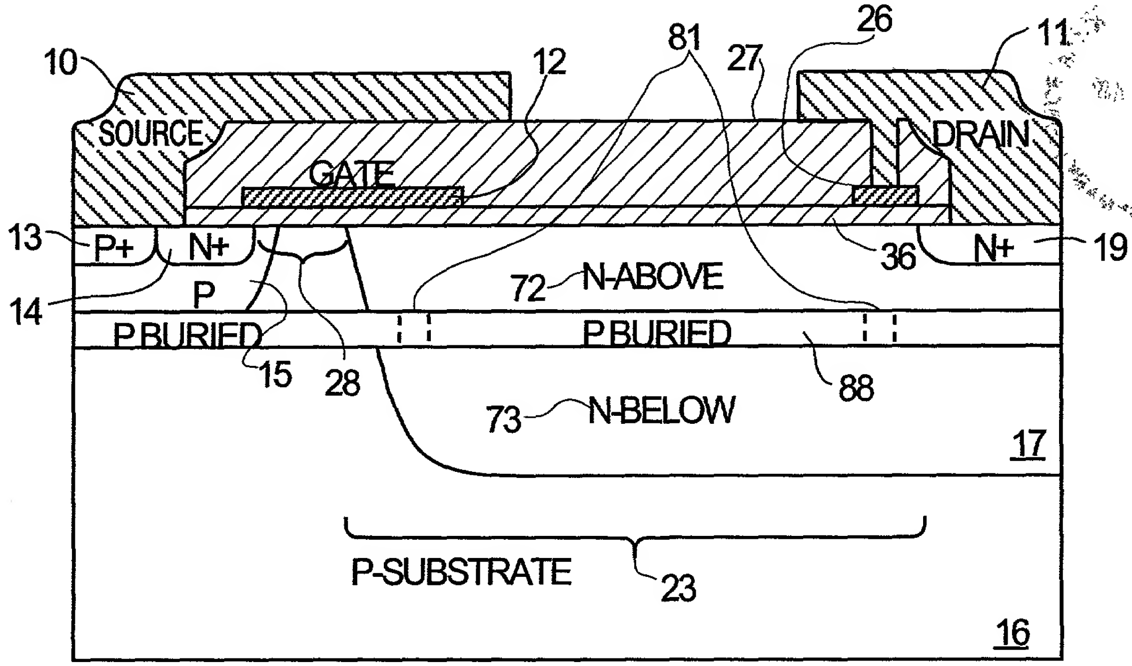

10
SOURCE
12
GATE
81
27
26
11
DRAIN
13
P+
N+
14
P
P BURIED
15
28
72
N-ABOVE
P BURIED
36
N+
19
88
73
N-BELOW
17
P-SUBSTRATE
23
16

FIG. 14